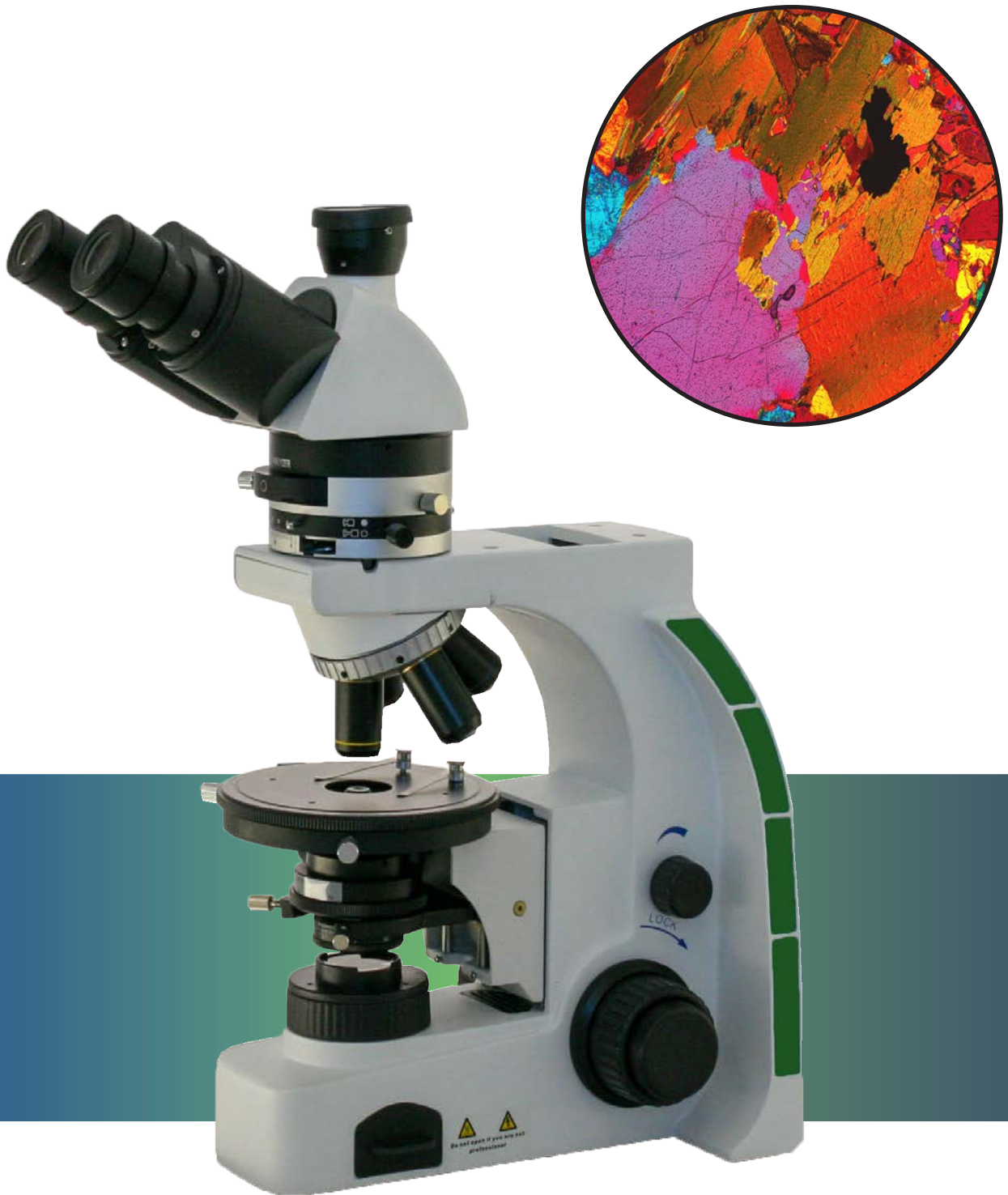
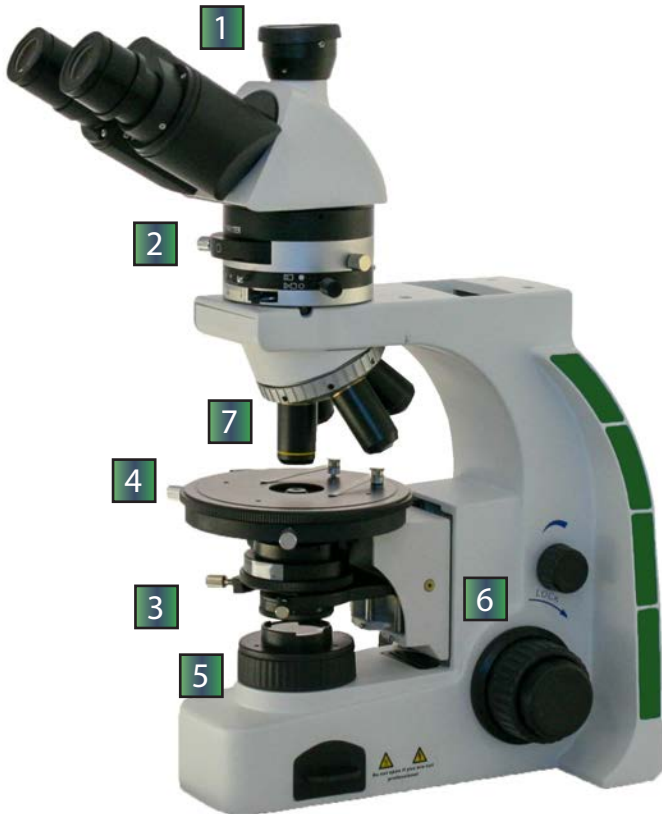




R21POL Polarizing Microscope



R21POL Polarizing Microscope Features



1 Ergonomically inclined trinocular head with eyetubes at 30° places user in the best working position, creating less tension and fatigue. Interpupillary distance is adjustable from 52~75mm. FPL-WF10x high eyepoint eyepieces, FN20.

2 Intermediate tube holds bertrand lens with focusing knob and rotatable analyzer. The analyzer can be rotated up to 180°. Slots for compensators: Gypsum, 1λ plate, Mica 1/4λ plate, and Quartz wedge.

3 Polarizer rotates 360° and connects directly onto the base of the condenser.

4 160mm diameter circular 360° revolving stage. Stage rotates 1° increments, precision 6', and has a locking device.

5 3w LED transmitted Koehler illumination with iris diaphragm.

6 Coaxial coarse and fine focusing adjustment. Coarse focus has upper limit tension adjustment.

7 Revolving quintuple nosepiece holds stress free, infinity correct polarizing objectives.



R21POL Polarizing Microscope Features



The Intermediate tube houses the Bertrand lens, analyzer, and slot for compensators: Gypsum 1λ gypsum 1λ plate, Mica $1/4\lambda$ plate, and Quartz wedge.

Bertrand lens is focusable, centerable, removable from light path, and has a rotating switch for adjustments.

Built in analyzer can be engaged/disengaged from the light path.



360° rotating polarizer connects into the base of the swing out 1.25 NA Abbe condenser.

R21POL Polarizing Microscope Included Items

Plan Achromat Stress Free Infinity Corrected Objectives

Objective	N.A.
4x	0.13
10x	0.30
40x	0.65
60x	0.80



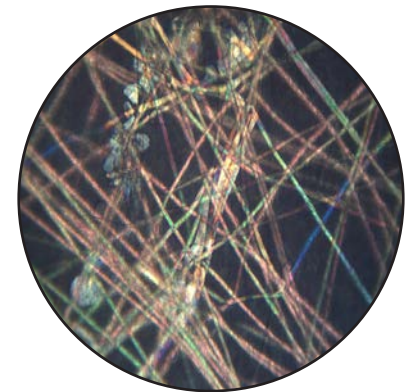
Eyepieces



Eyepiece	F.N.	Reticle
10x	20mm	-
10x	20mm	Crosshair

C-Mount Adapter

C-Mount	Camera Chip Size
0.5x	1/2" - 1/1.8"



R21POL Polarizing Microscope system includes the above objectives lenses, a pair of 10x/20mm eyepieces, a single 10x/20mm eyepiece with installed crosshair reticle, and 0.5x C-mount adapter.

R21POL Polarizing Microscope Features



Each objective is centered by inserting the included centering screws into the objective centering holes.



The polarizing microscope has an adjustable field iris diaphragm that is used to restrict the beam of light entering the objectives, improving the image contrast.

A filter slot is located on the top of the field iris diaphragm and accommodates Φ 38mm filters.

R21POL Polarizing Microscope Specifications

Optical System	Infinity Color Corrected Optical System.
Viewing Head	30° inclined Siedentopf trinocular head. Interpupillary distance adjustable 52~75mm.
Eyepieces	Pair of WF10x widefield eyepieces, FN20.
	Single WF10x widefield eyepiece, FN20 with installed crosshair reticle.
Objective Lenses	Stress Free Plan Achromat 2x, NA 0.13.
	Stress Free Plan Achromat 4x, NA 0.30.
	Stress Free Plan Achromat 40x, NA 0.65, spring loaded.
	Stress Free Plan Achromat 60x, NA 0.80, spring loaded.
Nosepiece	Revolving quintuple nosepiece.
Focus Adjustment	Coaxial coarse and fine focusing adjustment with rack and pinion mechanism. Fine focusing scale 0.002mm.
Body	Automatic voltage sensing power supply 110v~240v, removable power cord.
Stage	160mm diameter circular metal stage with graphite coating, anti-corrosive and anti-friction, rotates 360°, 1° increments, precision 6', with locking device.
Condenser	N.A. 1.25 Abbe stress-free condenser.
Illumination	3W LED.
Polarizer	Rotatable polarizer connects directly onto base of condenser.
Analyzer	180° rotatable analyzer sits in intermediate tube, with locking device.
Compensators	Gypsum 1λ plate, Mica 1/4λ plate, Quartz wedge.
C-Mount Adapter	Focusing 0.5x.
Filters	Daylight blue and green interference filters.
Size / Weight	26lbs, 18.9" x 18.9" x 12.4" (48x48x31.5cm).



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